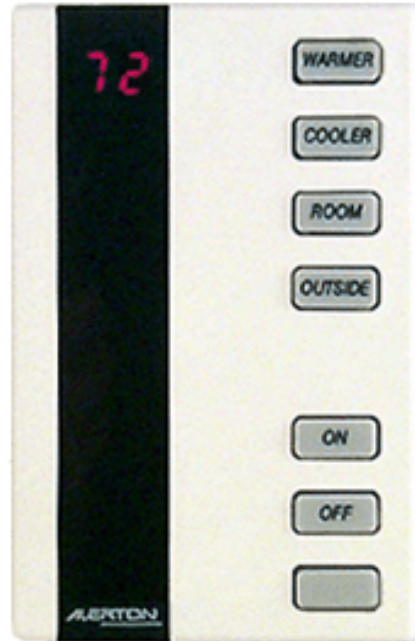


## Features and highlights

- Versatile**  
 Occupant can view room and outside air temperatures, select fan speed and change room temperature setpoints in the BACtalk® Microset's™ tenant control mode.
- Energy Efficient**  
 Occupants can select after-hours operation in 30-minute increments, which are logged at the BACtalk for Windows operator terminal for billing.
- Flexible**  
 A programmable field service mode allows maintenance personnel to monitor and adjust control parameters in the VLC from the Microset's field service mode.
- Attractive**  
 Modern styling enhances any interior, and functional design makes operation intuitive.



The Alerton® BACtalk® Microset™ is an intelligent zone temperature sensor with an optional humidity sensor. The Microset connects to Alerton's BACtalk VisualLogic® controllers (VLCs) and serves as a tenant control center and a field service tool as well as a sensor.

An occupant can use the Microset to view room and outside air temperatures and change setpoints within established limits. The LED displays temperatures in Fahrenheit or Celsius, and multispeed push-buttons provide fan-speed control. An occupant can select after-hours operation in 30-minute increments up to established limits, with after-hours usage recorded at the BACtalk for Windows operator terminal for billing.

The BACtalk Microset communicates with programmable VLCs, which directly connect to zone mechanical equipment. The VLC stores programmed control parameters and temperature settings, executing DDC to control equipment and maintain optimum environmental conditions.

The BACtalk Microset's programmable field service mode enables maintenance personnel to view and adjust control parameters in the field. This reduces maintenance and service time while providing facility personnel with increased flexibility.

The BACtalk Microset—together with Alerton's complete BACtalk line of BACnet-compliant routers, LSi Controllers, programmable VisualLogic controllers and operator terminal software—offers a total solution for automated building control.

**Technical Data**

• **Thermistor**

**Type:** Uni-curve Type II.

**Resistance:** 10K ohm at 77 deg. F (25 deg. C). See table below.

**Interchangeability:** 0.36 deg. F (0.2 deg. C).

**Time Constant\*:** 10 seconds (to 66% of new temperature).

**Stability\*:** 0.036 deg. F (0.02 deg. C) drift per year.

**Accuracy\*:** ± 0.36 deg. F (0.2 deg. C) over range of 32–158 deg. F (0–70 deg. C).

\* Based on normal operating conditions.

- **Wiring** 18–22 AWG, shielded, two-conductor. Low capacitance wire recommended.
- **Max. Dimensions** 4.6" (117mm)H x 3.0" (76mm)L x 1.35" (34mm)D.
- **Environmental** Residential, commercial and light-industrial environments. 32–158 deg. F (0–70 deg. C). 0–90% RH, non-condensing.

• **Optional Humidity Sensor**

Total Accuracy: ± 2% RH, 0-100% RH @ 25 deg. C, with saturated salt calibration.

Operating Temperature: -40–185 deg. F (-40–85 deg. C).

Repeatability: ± 0.5% RH.

Interchangeability: ± 5% RH up to 60%RH, ± 8% RH at 90% RH (typical humidity).

• **Ratings**

Listed Underwriters Laboratory as an accessory for VAVs and VLCs

EMC Directive (European CE Mark)

FCC Part 15.107 & 109, Class B

**Thermistor Resistance at Selected Temperatures**

Temperature	Resistance
35°F (1.7°C)	29,997 Ohms
40 (4.4)	26,100
45 (7.2)	22,766
50 (10.0)	19,900
55 (12.8)	17,437
60 (15.6)	15,313
65 (18.3)	13,477
70 (21.1)	11,883
75 (23.9)	10,500
80 (26.7)	9,297
85 (29.4)	8,250

Temperature	Resistance
90°F (32.2°C)	7,333 Ohms
95 (35.0)	6,530
100 (37.8)	5,827
105 (40.6)	5,207
120 (48.9)	3,757
125 (51.7)	3,380
130 (54.4)	3,047
135 (57.2)	2,720
140 (60.0)	2,488
145 (62.8)	2,250
150 (65.6)	2,040

**Ordering Information**

Item number	Description
MS-1010-BT	One-speed BACtalk Microset wall sensor
MS-1010H-BT	One-speed BACtalk Microset wall sensor with RH sensor
MS-1030-BT	Three-speed BACtalk Microset wall sensor
MS-1030H-BT	Three-speed BACtalk Microset wall sensor with RH sensor

Specifications subject to change without notice.